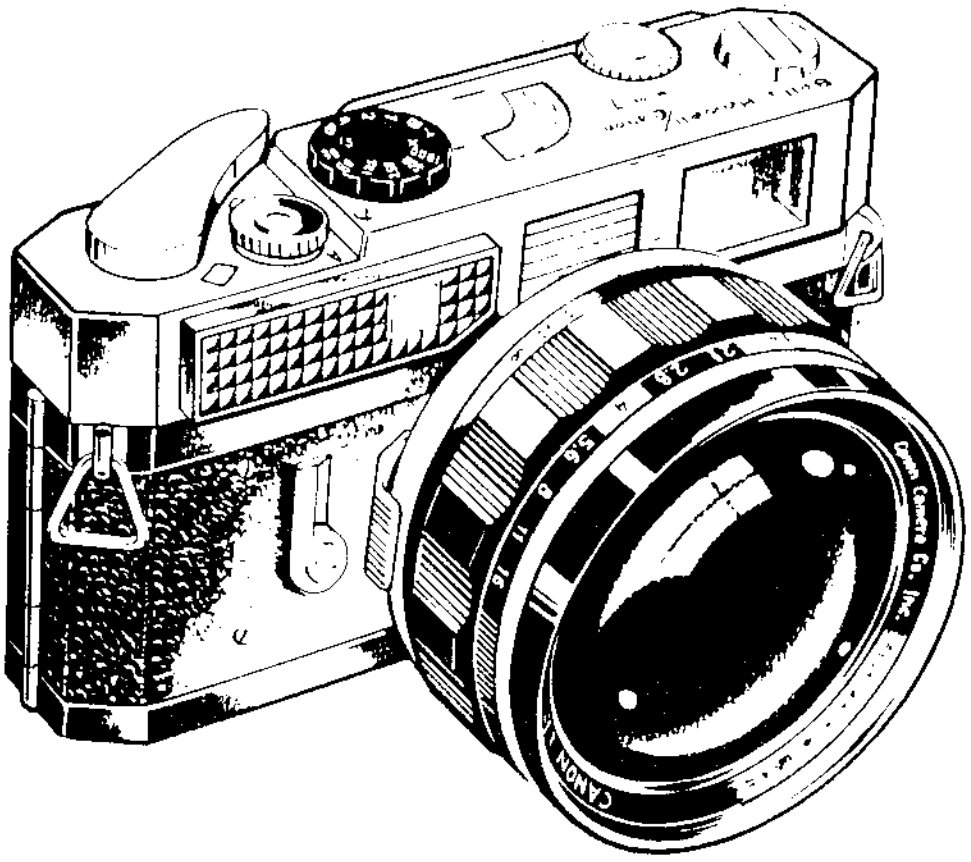
# Canon

# 7-S

## REPAIR MANUAL



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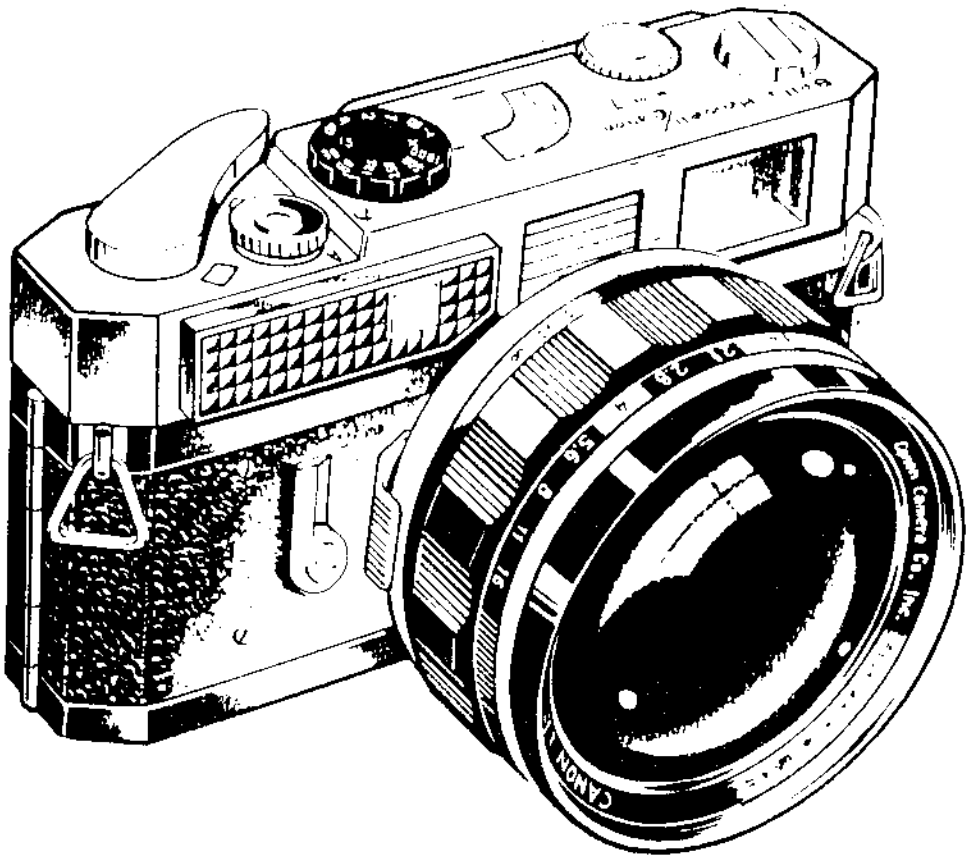

# CANON REPAIR MANUAL

## CANON 7S

(REFERENCE NO. 1-10611)

CANON CAMERA COMPANY INC.

TOKYO, JAPAN

First Printing, April, 1965

CANON CAMERA CO., INC.

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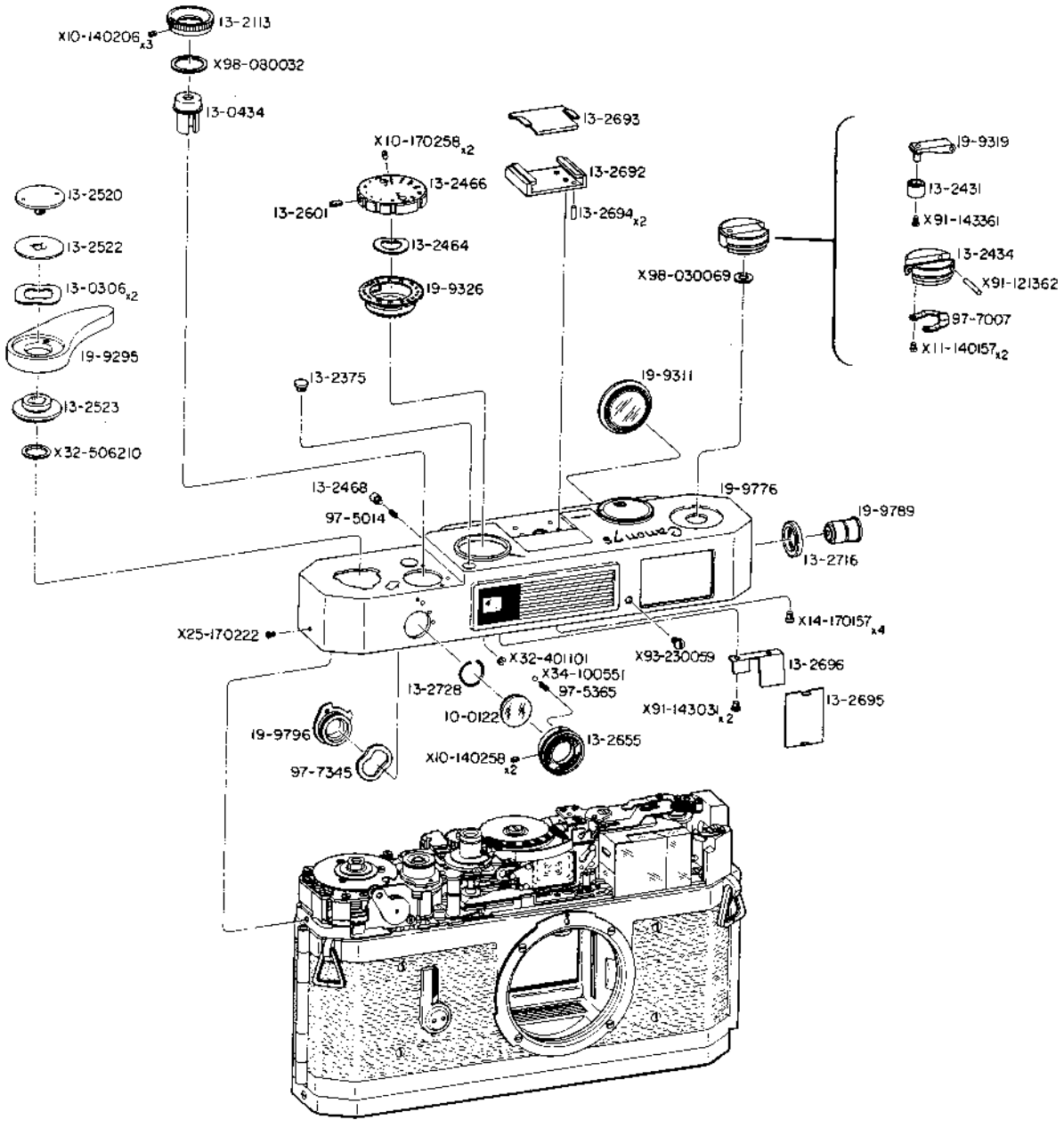
# EXPLODED VIEW
of
# CANON 7S



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PARTS LIST

## WINDING LEVER SET

| | |
|---|---|
| 13-0306 | Spring Washer×2 |
| 13-2520 | Pin Face Screw |
| 13-2522 | Washer |
| 13-2523 | Shaft of Winding Lever |
| 19-9295 | Winding Lever(B.P.) |
| X32-506210<br>X32-506211 | Washer×N |

## SHUTTER BUTTON

| | |
|---|---|
| 13-0434 | Shutter Button |
| 13-2113 | Film Rewind Ring |
| X10-140206 | Screw×3 |
| X98-080032 | Washer |

## SHUTTER SPEED DIAL SET

| | |
|---|---|
| 13-2464 | Spring Washer |
| 13-2466 | Shutter Dial |
| 13-2601 | Screw |
| 19-9326 | Film Speed Dial(B.P.) |
| X10-170258 | Screw×2 |

## REWIND CRANK SET

| | |
|---|---|
| 13-2431 | Rewind Knob |
| 13-2434 | Rewind Knuckle |
| 19-9319 | Rewind Crank(B.P.) |
| 97-7007 | Spring |
| X11-140157 | Screw×2 |
| X91-121362 | Screw |
| X91-143361 | Screw |
| X98-030069 | Washer |

## LIGHT-METER WINDOW

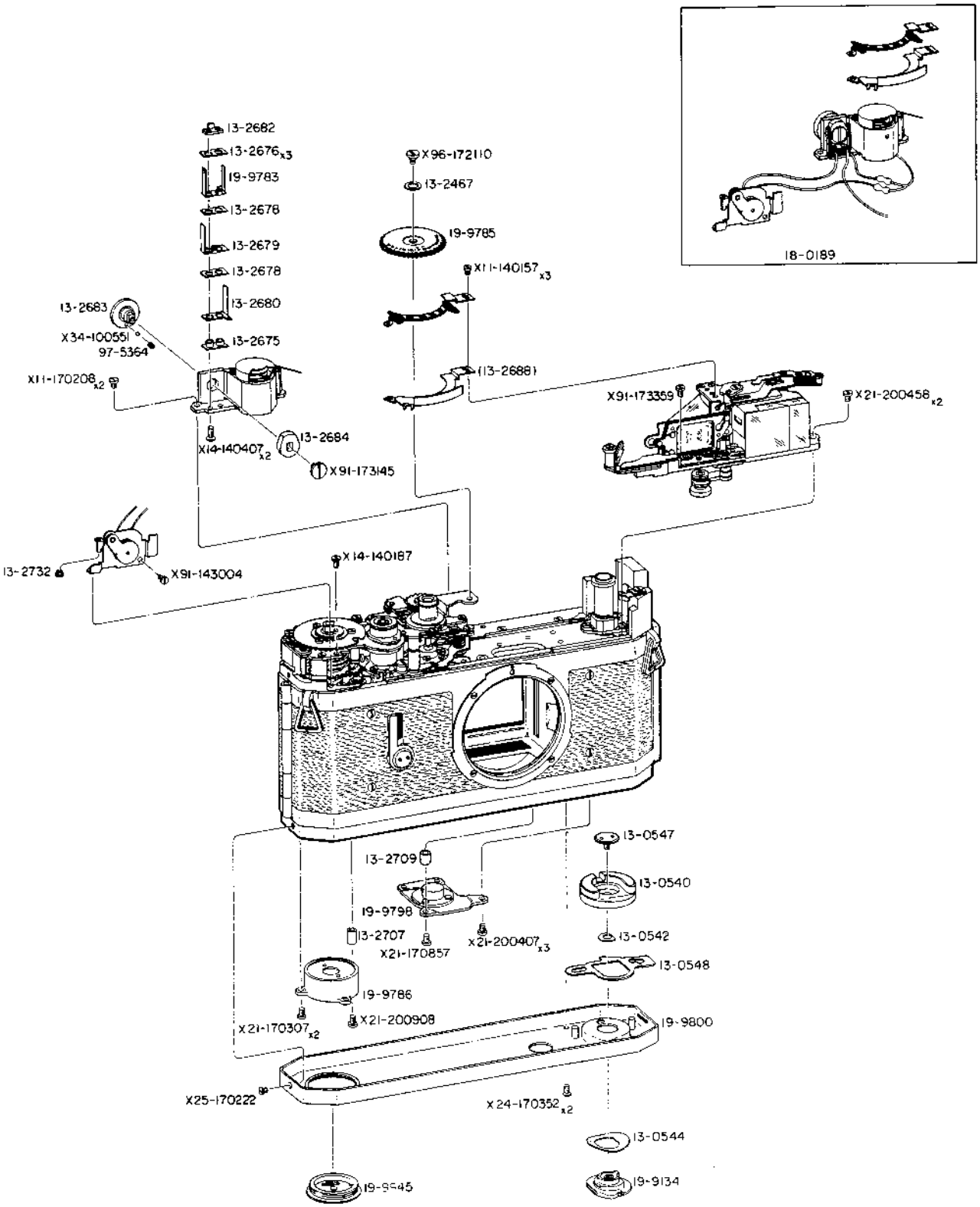
| | |
|---|---|
| 10-0122 | Fresnel Lens |
| 13-2655 | Light Meter Sensitivity Shifting Ring |
| 13-2728 | Assemble Spning |
| 19-9796 | Stopper Cam(B.P.) |
| 97-5365 | Coil Spring |
| 97-7345 | Spring Washer |
| X10-140258 | Scew×2 |
| X34-100551 | Steel Ball |

## TOP COVER

| | |
|---|---|
| 13-2375 | Pin Face Screw |
| 13-2468 | Film Speed Indicator Button |
| 13-2692 | Accessory Shoe |
| 13-2693 | Plate Spring |
| 13-2694 | Pin×2 |
| 13-2695 | Light Shield |
| 13-2696 | Holder Plate |
| 13-2716 | Flash Terminal Collar |
| 19-9311(0)<br>19-9311(+1.5)<br>19-9311(−1)<br>19-9311(−2.5) | Eyepiece(B.P.)<br>Such numbers as(0) (+1.5) (−1) and (−2.5) show the diopter of the eyepiece |
| 19-9776 | Top Cover(B.P.) |
| 19-9789 | Flash Terminal(B.P.) |
| X14-170157 | Screw×4 |
| X25-170221 | Screw |
| X32-401101 | Retaining Washer |
| X91-143031 | Screw×2 |
| X93-230059 | Screw |

REF. NO. 1-10611

# EXPLODED VIEW
of
# CANON 7S



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PARTS LIST

## LIGHT METER

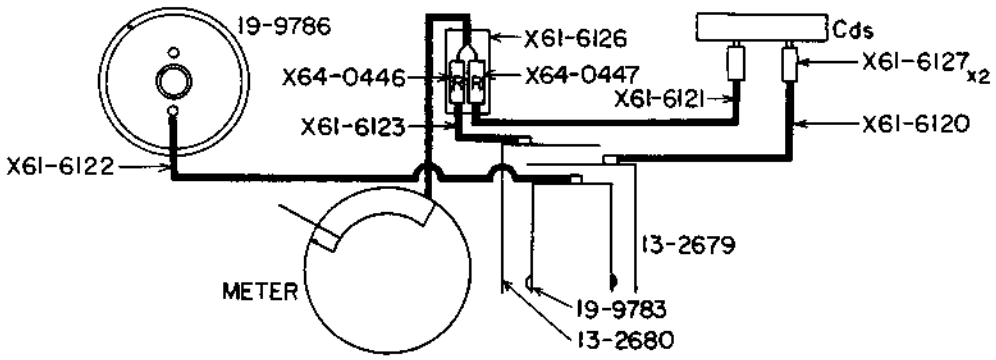
| | |
|---|---|
| 13-2467 | Spring Washer |
| 13-2732 | Nut |
| 18-0189 | Light Meter(Unit) |
| 13-2675 | Insulator |
| 13-2676 | Insulator×3 |
| 13-2677 | Contact |
| 13-2678 | Insulator×2 |
| 13-2679 | Contact |
| 13-2680 | Contact |
| 13-2682 | Contact Holder |
| 13-2683 | Switch Ring |
| 13-2684 | Switch Cam |
| 13-2688 | Light Shield |
| 97-5364 | Coil Spring |
| X14-140407 | Screw×2 |
| X34-100551 | Steel Ball |
| X91-173145 | Screw |
| X98-040371 | Washer |
| 19-9785 | Light Meter Dial(B.P.) |
| X11-140157 | Screw×3 |
| X11-170208 | Screw×2 |
| X14-140187 | Screw |
| X91-143004 | Screw |
| X96-172110 | Screw |

## RANGE-VIEWFINDER (cf.p.8)

| | |
|---|---|
| X21-200458 | Screw×2 |
| X91-173359 | Screw |

## BASE PLATE SET

| | |
|---|---|
| 13-0540 | Magazine Opening Disk |
| 13-0542 | Washer |
| 13-0544 | Spring Washer |
| 13-0547 | Pin Face Screw |
| 13-0548 | Safty Plate |
| 13-2707 | Collar |
| 13-2709 | Collar |
| 19-9134 | Magazine Opening Key (B.P.) |
| 19-9786 | Battery Case(B.P.) |
| 19-9798 | Tripod Socket(B.P.) |
| 19-9800 | Base Plate(B.P.) |
| 19-9945 | Battery Cover |
| X21-170307 | Screw×2 |
| X21-170857 | Screw |
| X21-200407 | Screw×3 |
| X21-200908 | Screw |
| X24-170352 | Screw×2 |
| X25-170222 | Screw |



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# EXPLODED VIEW
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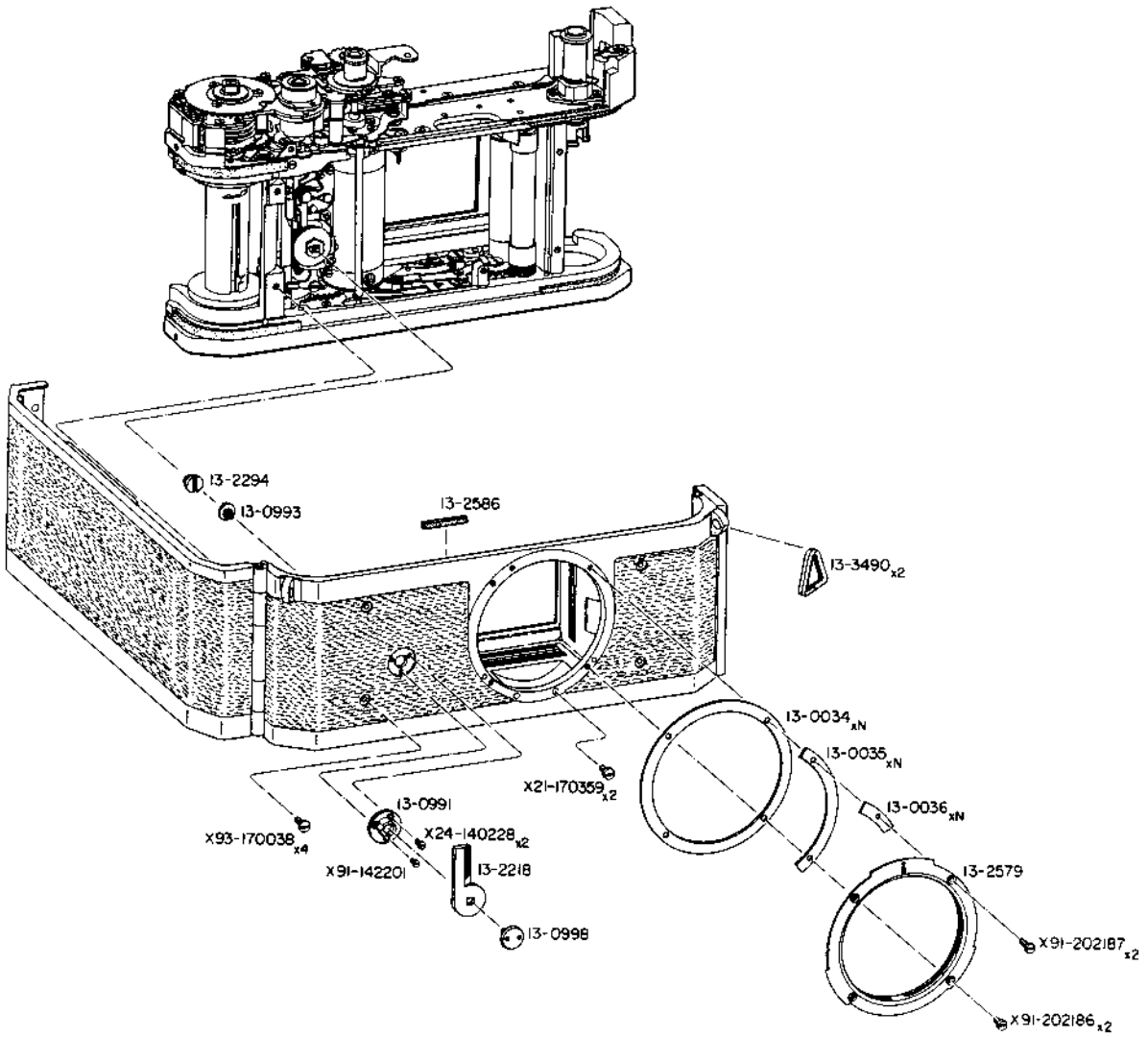
# CANON 7S



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## SELF-TIMER LEVER

| | |
|---|---|
| 13-0991 | Bearing |
| 13-0993 | Coupling Joint |
| 13-0998 | Pin Face Screw |
| 13-2218 | Self-Timer Lever |
| 13-2294 | Coupling Joint |
| X24-140228 | Screw×2 |
| X91-142201 | Screw |

## FRONT & BACK COVER SET (cf.p.4,p.5)

| | |
|---|---|
| 13-2586 | Light Shield |
| 13-3490 | Neck Strap Adapter×2 |
| X21-170359 | Screw×2 |
| X93-170038 | Screw×4 |

## LENS MOUNT SET

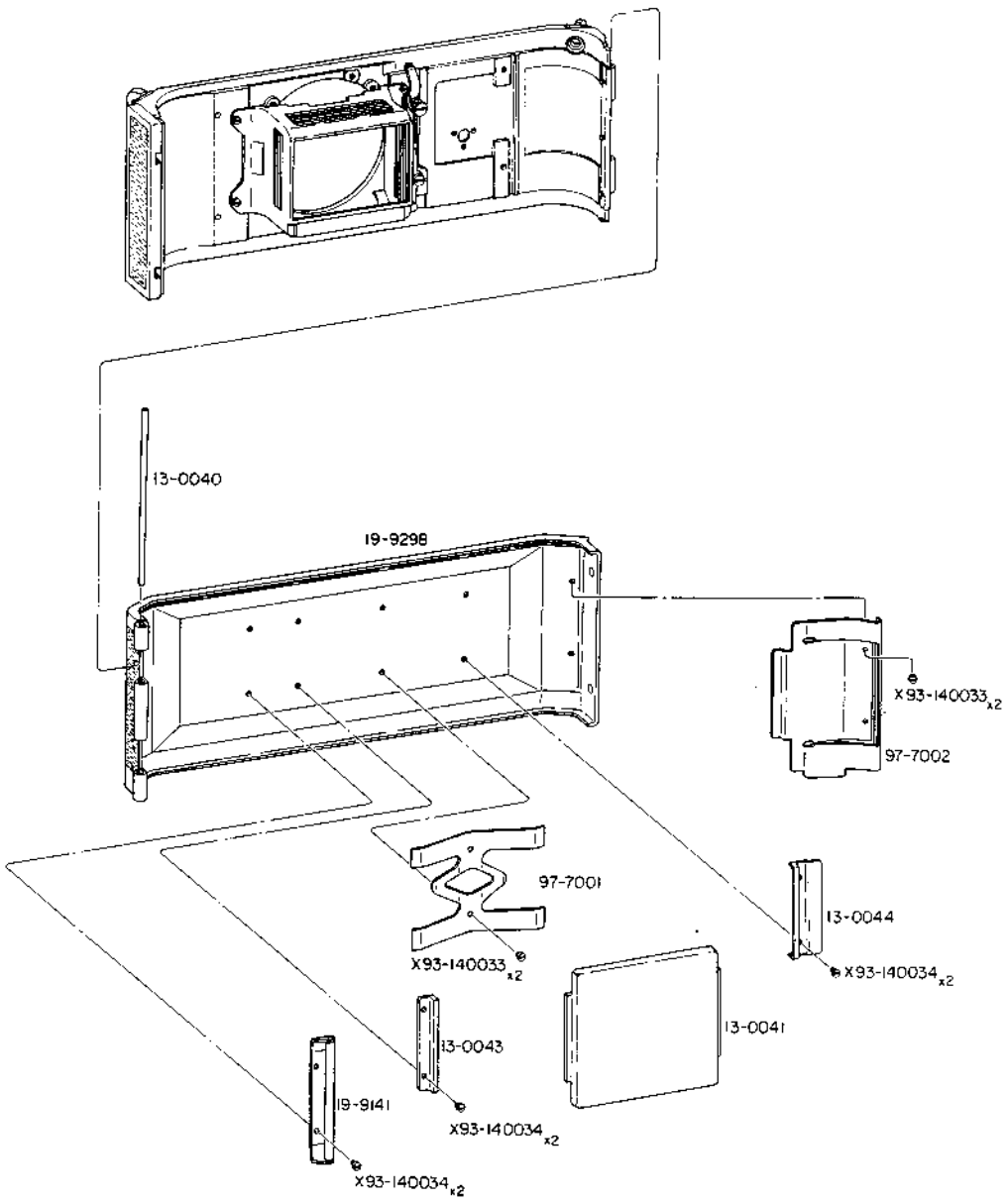
| | |
|---|---|
| 13-0034(0.1)<br>13-0034(0.07)<br>13-0034(0.05)<br>13-0034(0.03) | Adjusting Washer×N<br>Such numbers as(0.1)(0.07)and(0.05)indicate the thickness of Adjusting Washers(Unit : mm) |
| 13-0035(0.1)<br>13-0035(0.07)<br>13-0035(0.05)<br>13-0035(0.03) | Adjusting Washer×N<br>Such numbers as(0.1)(0.07)and(0.05)indicate the thickness of Adjusting Washers(Unit : mm) |
| 13-0036(0.1)<br>13-0036(0.07)<br>13-0036(0.05)<br>13-0036(0.03) | Adjusting Washer×N<br>Such numbers as(0.1)(0.07)and(0.05)indicate the thickness of Adjusting Washers(Unit : mm) |
| 13-2579 | Lens Mounting Frange |
| X91-202186 | Screw×2 |
| X91-202187 | Screw×2 |

REF. NO. 1-10611

# EXPLODED VIEW

of

# CANON 7S



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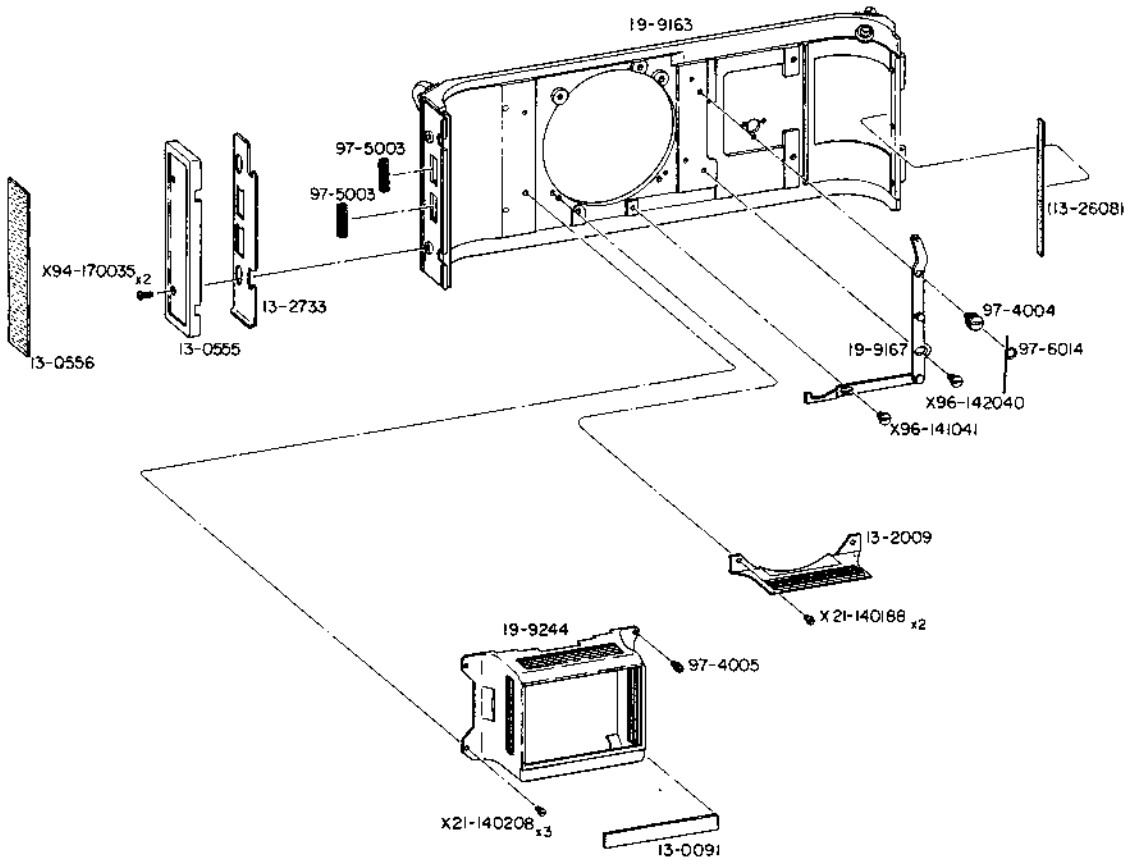
## BACK COVER

| | |
|---|---|
| 13-0040 | Shaft of Hinge |
| 13-0041 | Pressure Plate |
| 13-0043 | Pressure Plate Holder |
| 13-0044 | Pressure Plate Holder |
| 19-9141 | Film Guide Rollar(B.P.) |
| 19-9298 | Back Cover(B.P.) |
| 97-7001 | Spring of Pressure Plate |
| 97-7002 | Cassette Holder |
| X93-140033 | Screw×4 |
| X93-140034 | Screw×6 |

# EXPLODED VIEW

of

# CANON 7S



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PARTS LIST

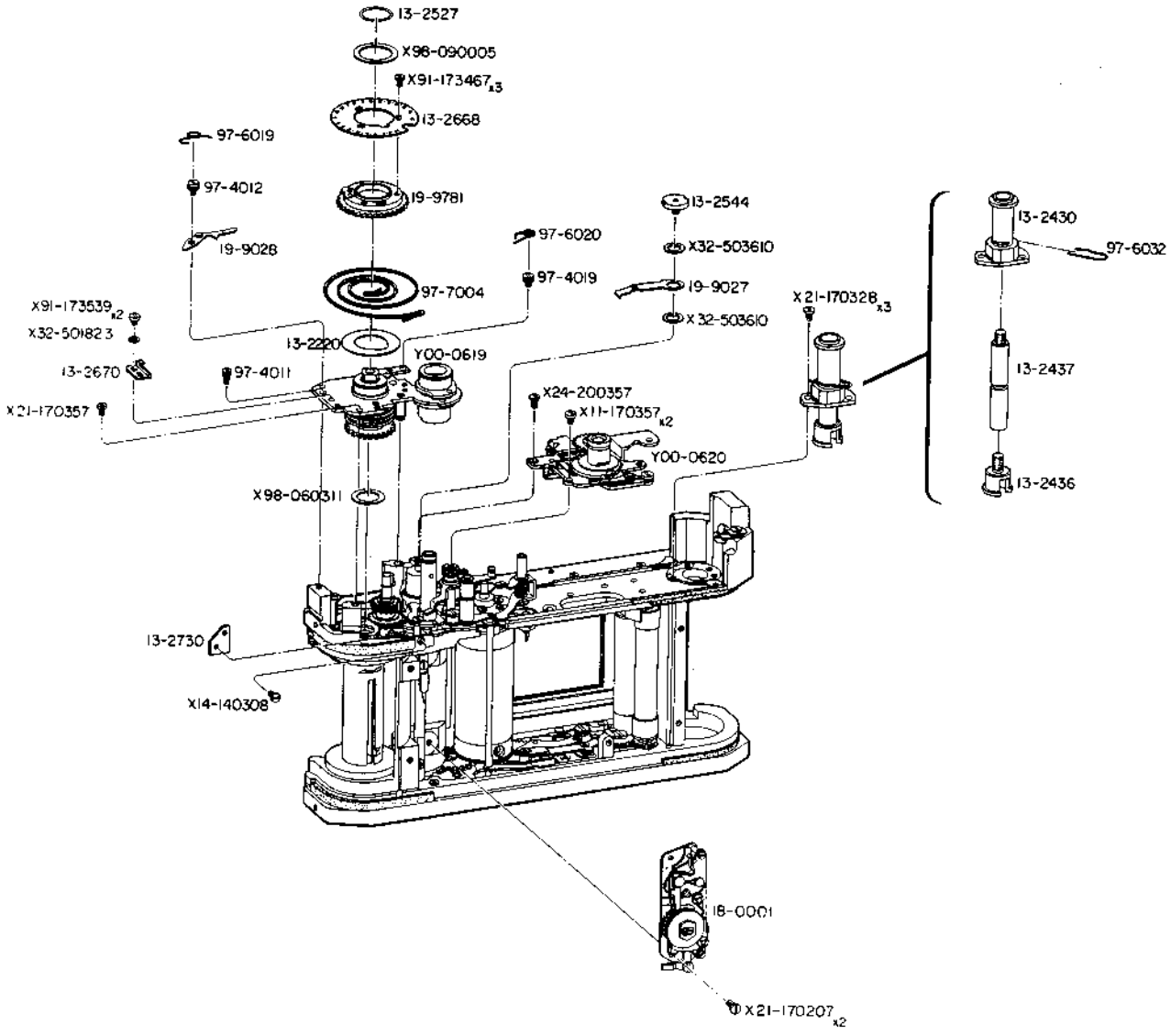
## FRONT COVER

| | |
|---|---|
| 13-0091 | Light Shield |
| 13-0555 | Cover Plate |
| 13-0556 | Leather |
| 13-2009 | Light Shield |
| 13-2608 | Light Shield |
| 13-2733 | Lock of Back Cover |
| 19-9163 | Front Cover(B.P.) |
| 19-9167 | Slow Speed Selecting Link(B.P.) |
| 19-9244 | Light Shield(B.P.) |
| 97-4004 | Shaft Screw |
| 97-4005 | Screw |
| 97-5003 | Coil Spring×2 |
| 97-6014 | Spring |
| X21-140188 | Screw×2 |
| X21-140208 | Screw×3 |
| X94-170035 | Screw×2 |
| X96-141041 | Screw |
| X96-142040 | Screw |

# EXPLODED VIEW

of

# CANON 7S



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## SELF-TIMER SET

| | |
|---|---|
| 18-0001 | Self-Timer(Unit) |
| X21-170207 | Screw×2 |

## EXPOSURE COUNTER (cf.p.7)

| | |
|---|---|
| Y00-0619 | Base Plate for Winding Mechanism(Unit) |
| 13-2220 | Washer |
| 13-2527 | Retainer |
| 13-2544 | Film Transport Indicator |
| 13-2668 | Exposure Counter Dial |
| 13-2670 | Stopper |
| 19-9027 | Feeding Claw(B.P.) |
| 19-9028 | Stopper Claw(B.P.) |
| 19-9781 | Ratchet Gear(B.P.) |
| 97-4011 | Screw |
| 97-4012 | Screw |
| 97-4019 | Screw |
| 97-7004 | Spring |
| X21-170357 | Screw×2 |
| X32-501823 | Washer |
| X91-173467 | Screw×3 |
| X91-173539 | Screw×2 |
| X98-060311 | Washer |
| [X98-090005 X98-090006] | Washer |

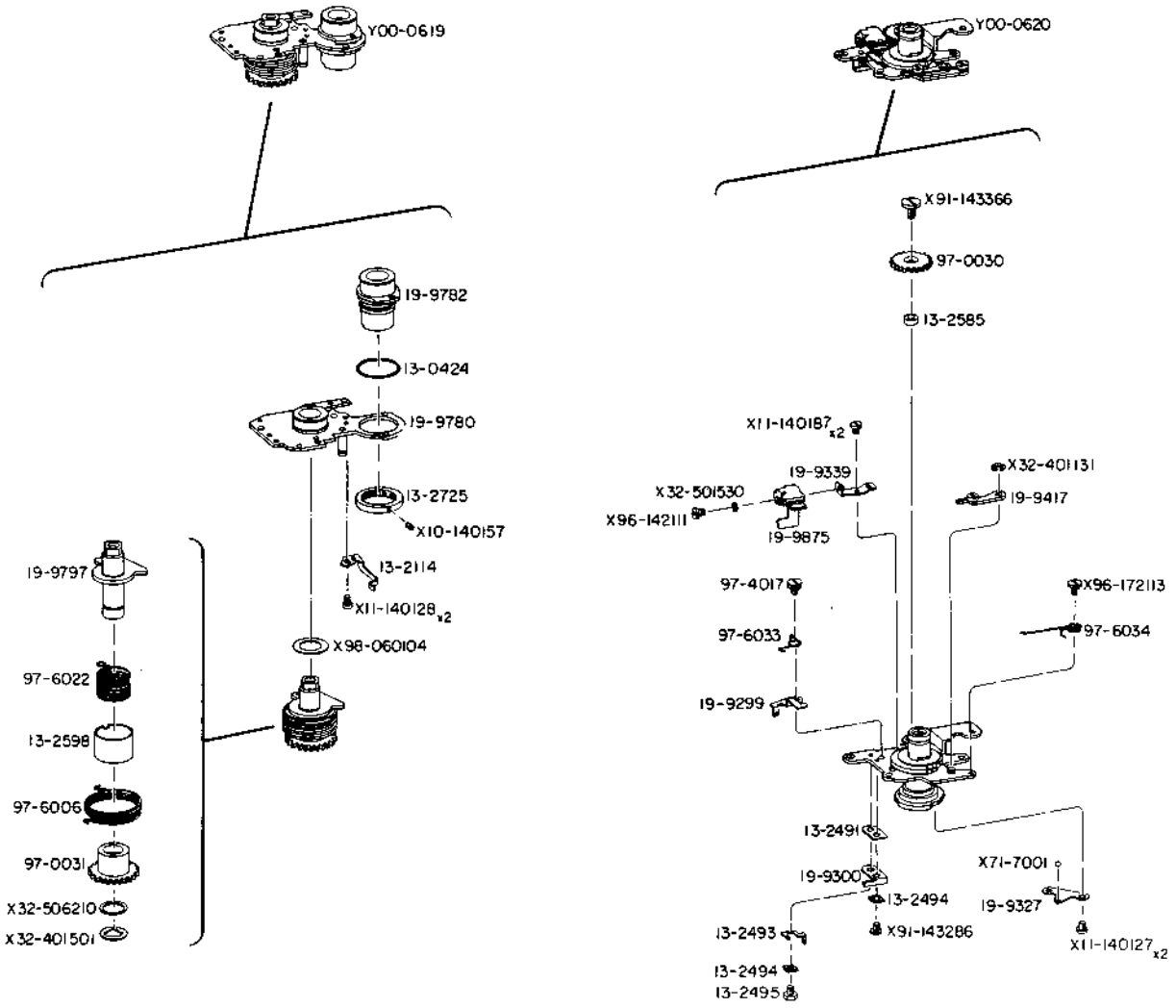
## SHUTTER SPEED SELECTOR (cf.p.7)

| | |
|---|---|
| Y00-0620 | Shutter Speed Selector (Unit) |
| 13-2730 | Light Meter Holder |
| X11-140358 | Screw |
| X11-170357 | Screw×2 |
| X24-200357 | Screw |

## REWIND CRANK SHAFT

| | |
|---|---|
| 13-2430 | Bearing for Rewind Shaft |
| 13-2436 | Rewind Fork |
| 13-2437 | Rewind Shaft |
| 97-6032 | Spning |
| X21-170328 | Screw×3 |

# EXPLODED VIEW
of
# CANON 7S



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## BASE PLATE FOR WINDING MECHANISM

| | |
|---|---|
| Y00-0619 | Base Rlate for Winding Mechanism(unit) |
| 13-0424 | Spring Washer |
| 13-2114 | Click Plate |
| 13-2598 | Spring Cover |
| 13-2725 | Nut |
| 19-9780 | Winding Selector(B.P.) |
| 19-9782 | Film Rewind Tube(B.P.) |
| 19-9797 | Winding Device Shaft (B.P.) |
| 97-0031 | Winding Gear |
| 97-6006 | Coil Spring |
| 97-6022 | Coil Spring |
| X10-140157 | Screw |
| X11-140128 | Screw×2 |
| X32-401501 | Retaining Washer |
| X32-506210<br>X32-506211<br>X32-506212<br>X32-506213 | Washer |
| X98-060104<br>X98-060105<br>X98-060106 | Washer |
| 97-4017 | Screw |
| 97-6033 | Spring |
| 97-6034 | Spring |
| X11-140127 | Screw×2 |
| X11-140187 | Screw×2 |
| X32-401131 | Retaining Washer |
| X32-501530 | Washer |
| X71-7001 | Steel Ball |
| X91-143286 | Screw |
| X91-143366 | Screw |
| X96-142111 | Screw |
| X96-172113 | Screw |

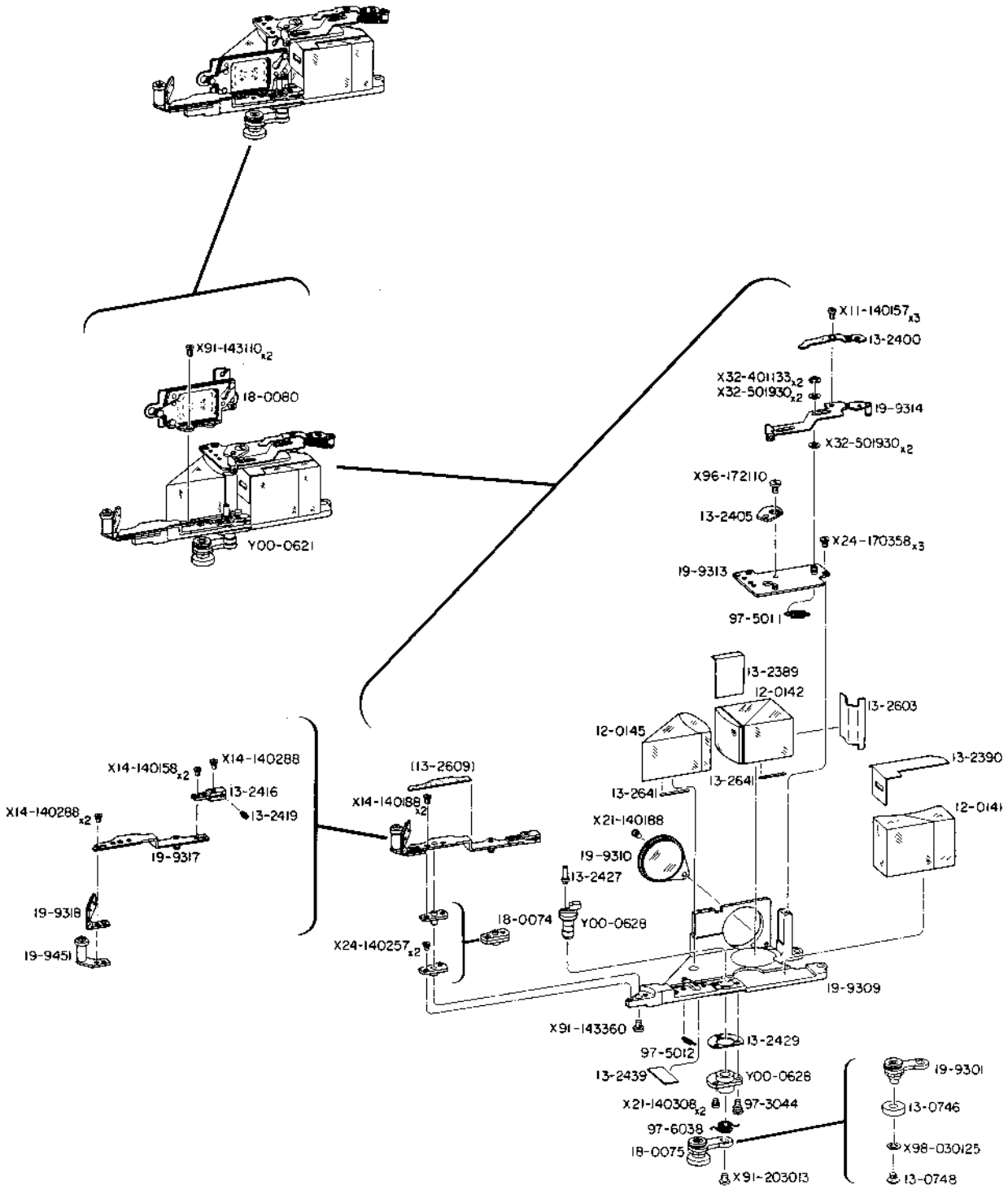
## SHUTTER SPEED SELECTOR

| | |
|---|---|
| YOO-0620 | Shutter Speed Selector (Unit) |
| 13-2491 | Insulator |
| 13-2493 | Contact |
| 13-2494 | Insulator×2 |
| 13-2495 | Screw |
| 13-2585 | Collar |
| 19-9299 | Contact(B.P.) |
| 19-9300 | Contact(B.P.) |
| 19-9327 | Click Spring(B.P.) |
| 19-9339 | Clutch Lever Holder (B.P.) |
| 19-9417 | Slow Speed Selecting Lever(B.P.) |
| 19-9875 | Clutch Lever(B.P.) |
| 97-0030 | Gear |

# EXPLODED VIEW

of

# CANON 7S



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## RANGE-VIEWFINDER OPTICAL SYSTEM

| | |
|---|---|
| 18-0080 | Finder Compensator (Unit) |
| X91-143110 | Screw×2 |
| Y00-0621 | Range-Viewfinder Optical System(Unit) |
| Y00-0628 | Range-Viewfinder Cam and Bearing(Unit) |
| 12-0141 | Prism(B.P.) |
| 12-0142 | Prism(B.P.) |
| 12-0145 | Prism(B.P.) |
| 13-2389 | Light Shield |
| 13-2390 | Light Shield |
| 13-2400 | Guide Lever |
| 13-2405 | Viewfinder selecting Cam |
| 13-2416 | Nut |
| 13-2419 | Screw |
| 13-2427 | Screw |
| 13-2429 | Washer |
| 13-2439 | Light Shield |
| 13-2603 | Light Shield |
| 13-2641 | Spacer×2 |
| 18-0074 | Bearing(Unit) |
| 18-0075 | Focusing Rollar(Unit) |
| 13-0746 | Rollar |
| 13-0748 | Screw |
| 19-9301 | Focusing Rollar Lever (B.P.) |
| X98-030125 | Washer |
| 19-9309 | Range-Finder Plate(B.P.) |
| 19-9310 | Eyepiece(B.P.) |
| 19-9313 | Top Cover for Range-Viewfinder(B.P.) |
| 19-9314 | Guide Arm(B.P.) |
| 19-9317 | Lever for Range-Viewfinder |
| 13-2609 | Leather |
| 19-9318 | Mirror(B.P.) |
| 19-9451 | Mirror Holder(B.P.) |
| 97-3044 | Screw |
| 97-5011 | Coil Spring |
| 97-5012 | Coil Spring |
| 97-6038 | Coil Spring |
| X11-140157 | Screw×3 |
| X14-140158 | Screw×2 |
| X14-140188 | Screw×2 |
| X14-140288 | Screw×3 |
| X21-140188 | Screw |
| X21-140308 | Screw |
| X24-140257 | Screw×2 |
| X24-170358 | Screw×3 |
| X32-401133 | Retaining Washer×2 |
| X32-501930<br>X32-501931<br>X32-501932<br>X32-501933 | Washer×4 |
| X91-143110 | Screw×2 |
| X91-143360 | Screw |
| X91-203013 | Screw |
| X96-172110 | Screw |

# EXPLODED VIEW
of
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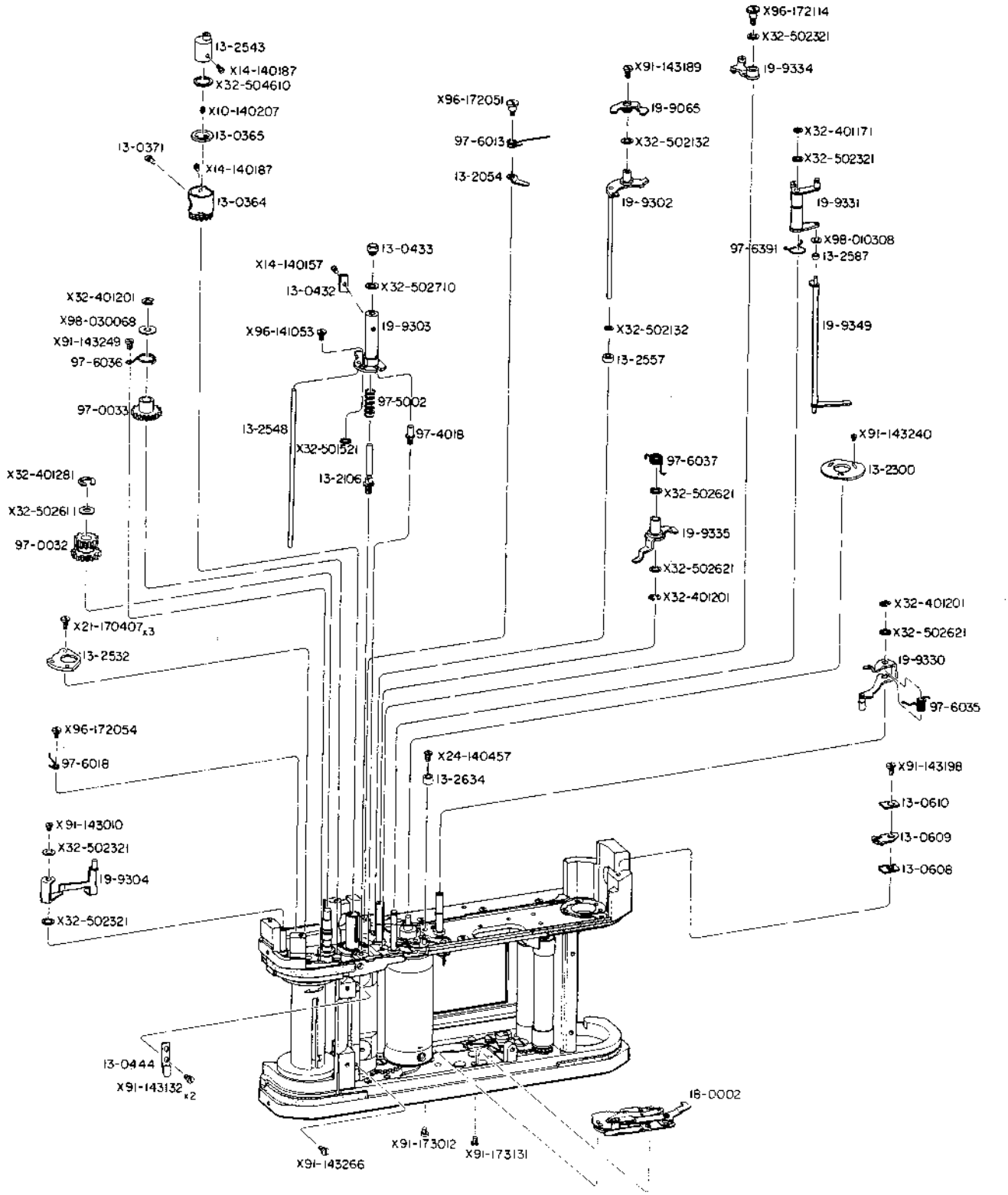




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## SLOW SHUTTER GOVENOR SET

| | |
|---|---|
| 18-0002 | Slow Shutter Governor (Unit) |
| X91-173012 | Screw |
| X91-173131 | Screw |

## SELF-TIMER RELEASE MECHANISM

| | |
|---|---|
| 13-0444 | Self Timer Starting Knock |
| X91-143132 | Screw×2 |
| [X91-143266<br>X91-143267<br>X91-143268] | Screw |

## FLASH CIRCUIT CONTACT

| | |
|---|---|
| 13-0608 | Insulator |
| 13-0609 | Contact |
| 13-0610 | Insulator |
| X91-143198 | Screw |

## EXPOSURE COUNTER (cf.p.6,p.7)

| | |
|---|---|
| 19-9304 | Resetting Lever(B.P.) |
| 97-6018 | Spring |
| [X32-502321<br>X32-502322] | Washer |
| X91-143010 | Screw |
| X96-172054 | Screw |

## IDLE GEAR

| | |
|---|---|
| 13-2532 | Bearing |
| 97-0032 | Idle Gear |
| 97-0033 | Idle Gear |
| 97-6036 | Coil Spring |
| X21-170407 | Screw×3 |
| X32-401201 | Retaining Washer |
| X32-401281 | Retaining Washer |
| [X32-502611<br>X32-502612] | Washer |
| X91-143249 | Screw |
| [X98-030068<br>X98-030069] | Washer |

## SPROCKET (cf.p.12)

| | |
|---|---|
| 13-0364 | Sprocket Drive Cear |
| 13-0365 | Clutch |
| 13-0371 | Pin |
| 13-2543 | Sprocket Cap |
| X10-140207 | Screw |
| X14-140187 | Screw×2 |
| [X32-504610<br>X32-504611<br>X32-504612] | Washer |

## SHUTTER BUTTON (cf.p.1)

| | |
|---|---|
| 13-0432 | Key |
| 13-0433 | Pin Face Screw |
| 13-2106 | Guide |
| 13-2548 | Winding Release Shaft |
| 19-9303 | Bearing for Shutter Button Shaft(B.P.) |
| 97-4018 | Guide |
| 97-5002 | Coil Spring |
| X14-140157 | Screw |
| [X32-501520<br>X32-501521<br>X32-501522] | Washer |
| [X32-502710<br>X32-502711<br>X32-502712] | Washer |

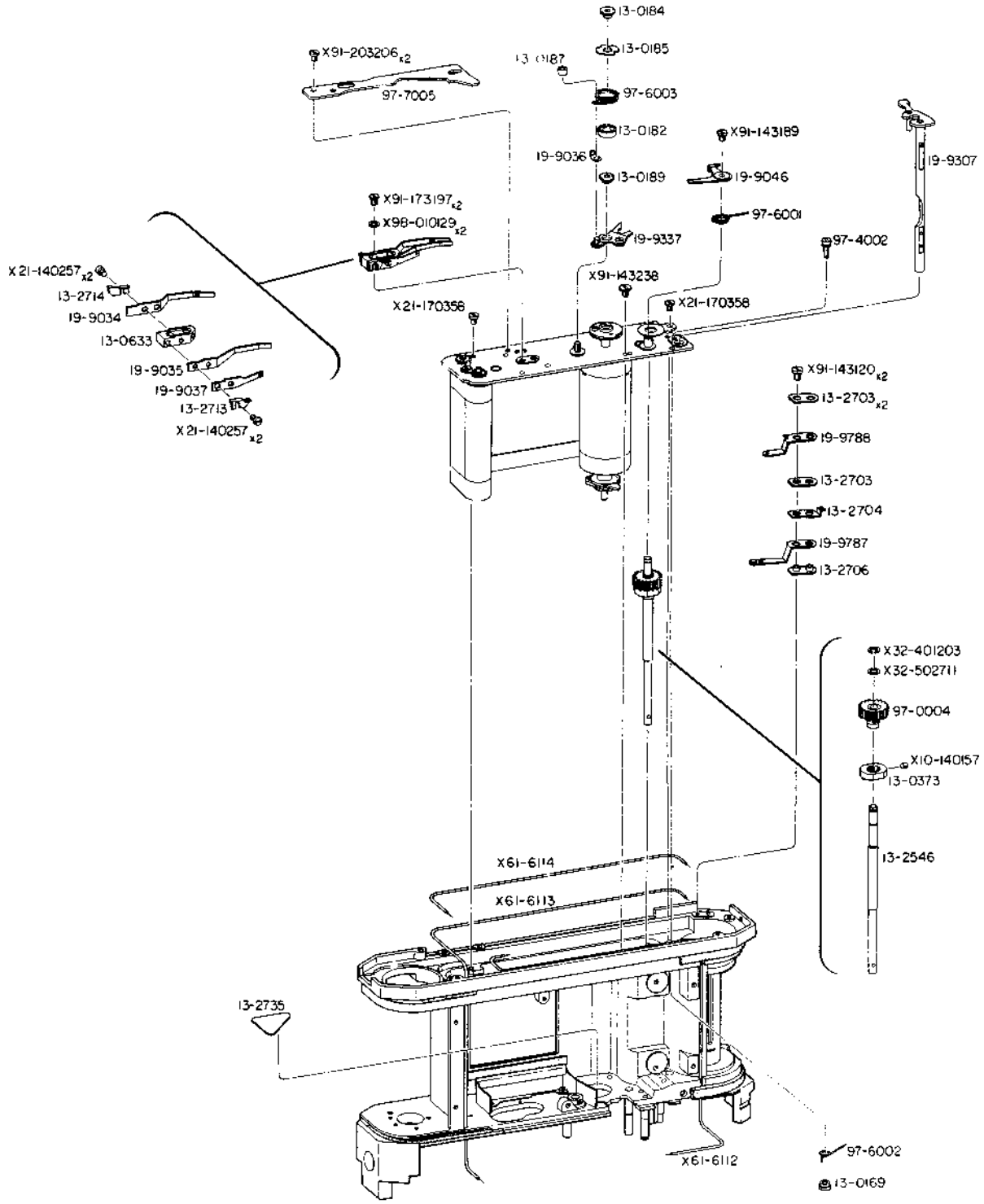
## SHUTTER MECHANISM (cf.p.10,p.11)

| | |
|---|---|
| 13-2054 | Cap |
| 13-2300 | Cam for High Speed |
| 13-2557 | Collar |
| 13-2587 | Collar |
| 13-2634 | Cam Stopper |
| 19-9065 | 2nd Curtain Clamp Cam (B.P.) |
| 19-9302 | 2nd Curtain Clamp Lever (B.P.) |
| 19-9330 | Slow Speed Selecting Lever(B.P.) |
| 19-9331 | Slow Speed Selecting Lever(B.P.) |
| 19-9334 | Adjusting Lever(B.P.) |
| 19-9335 | Time Lever(B.P.) |
| 19-9349 | Slow Speed Selecting Shaft(B.P.) |
| 97-6013 | Spring |
| 97-6035 | Coil Spring |
| 97-6037 | Spring |
| 97-6391 | Spring |
| X24-140457 | Screw |
| X32-401171 | Retaining Washer |
| X32-401201 | Retaining Washer×2 |
| [X32-502130<br>X32-502131<br>X32-502132] | Washer×2 |
| [X32-502321<br>X32-502322] | Washer |
| [X32-502621<br>X32-502622] | Washer×3 |
| X91-143189 | Screw |
| X91-143240 | Screw |
| X96-172051 | Screw |
| X96-172114 | Screw |
| [X98-010308] | Washer |

# EXPLODED VIEW

of

# CANON 7S



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PARTS LIST

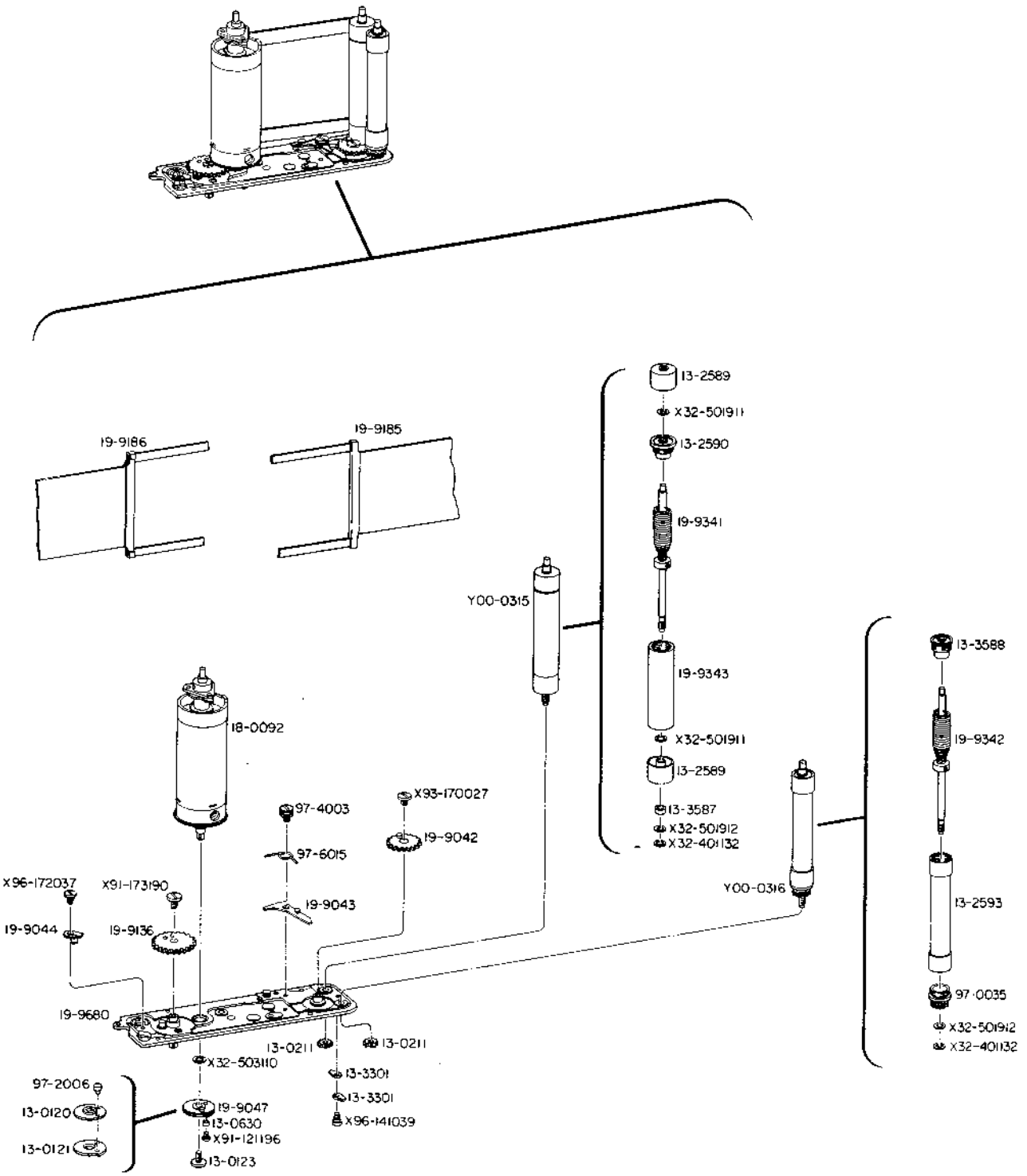
## SHUTTER MECHANISM (cf.p.11)

| | |
|---|---|
| 13-0169 | Nut |
| 13-0182 | Collar |
| 13-0184 | Nut |
| 13-0185 | Spring Washer |
| 13-0187 | Nut |
| 13-0189 | Nut |
| 13-0373 | Clutch |
| 13-2735 | Light Shield |
| 19-9036 | X Contact(B.P.) |
| 19-9046 | Shutter Release Lever (B.P.) |
| 19-9307 | Shutter Release Shaft (B.P.) |
| 19-9337 | Brake Lever for 1st Curtain(B.P.) |
| 97-0004 | Gear |
| 97-4002 | Screw |
| 97-6001 | Spring |
| 97-6002 | Nut |
| 97-6003 | Coil Spring |
| 97-7005 | Shutter Release Plate |
| X10-140157 | Screw |
| X21-170358 | Screw×2 |
| X32-401203 | Retaining Washer |
| X32-502711<br>X32-502712<br>X32-502715 | Washer |
| X91-143189 | Screw |
| X91-143238 | ScreW |
| X91-203206 | Screw×2 |

## FLASH CONTACT

| | |
|---|---|
| 13-0633 | Insulator Base |
| 13-2703 | Insulator |
| 13-2704 | Contact |
| 13-2706 | Insulator |
| 13-2713 | Lug |
| 13-2714 | Lug |
| 19-9034 | Flash Contact(B.P.) |
| 19-9035 | Flash Contact(B.P.) |
| 19-9037 | X Contact(B.P.) |
| 19-9787 | Contact(B.P.) |
| 19-9788 | Contact(B.P.) |
| X21-140257 | Screw×4 |
| X61-6112 | Lead Wire(230mm) |
| X61-6113 | Lead Wire(225mm) |
| X61-6114 | Lead Wire(112mm) |
| X91-143120 | Screw×2 |
| X91-173197 | Screw×2 |
| X98-010129 | Screw×2 |

# EXPLODED VIEW
of
# CANON 7S



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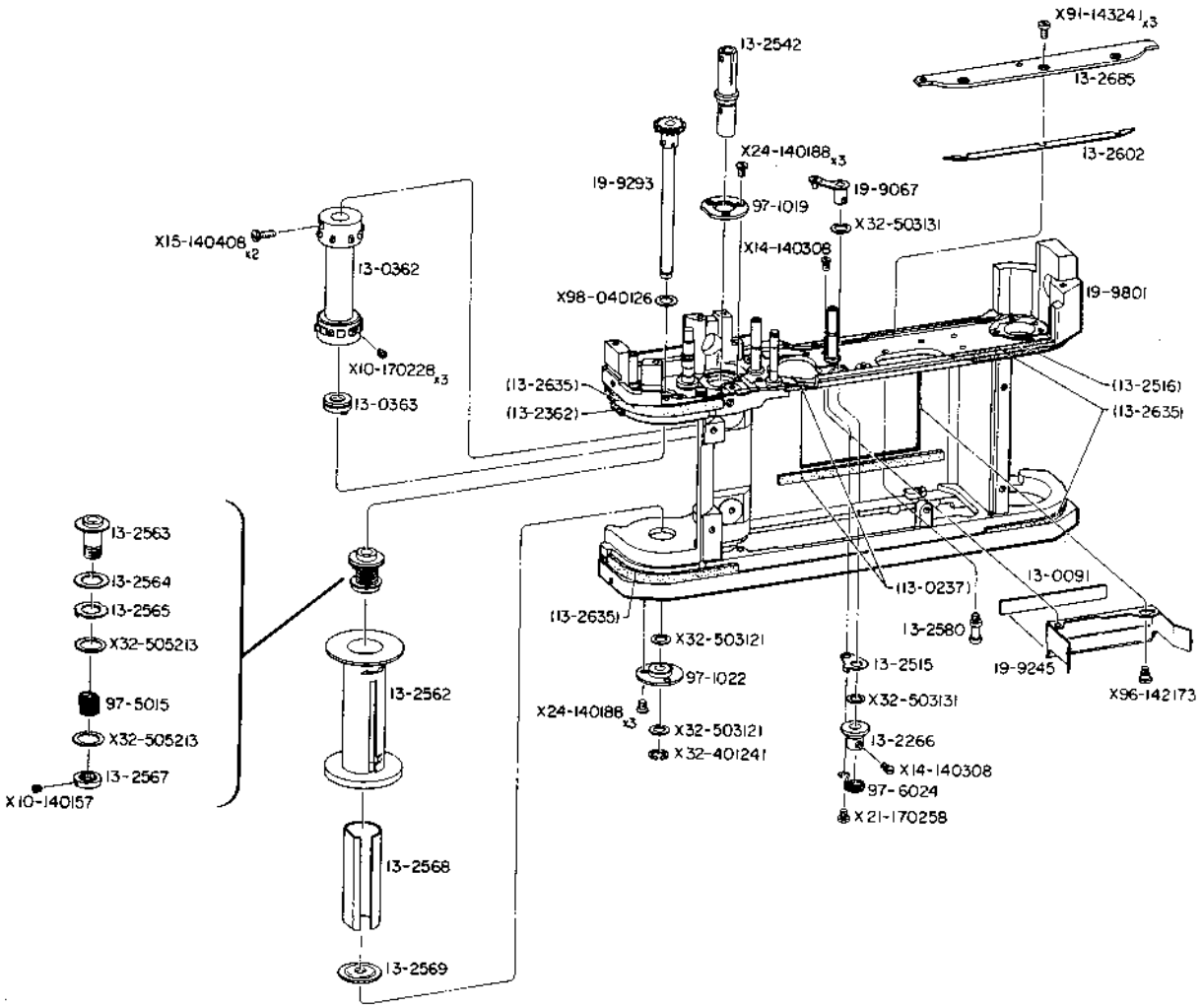
## SHUTTER MECHANISM (cf.p.10)

| | |
|---|---|
| Y00-0315 | 1st Curtain Shaft (Unit) |
| 13-2589 | Rollar of 1st Curtain |
| 13-2590 | Nut |
| 13-3587 | Collar |
| 19-9341 | 1st Curtain Spring (B.P.) |
| 19-9343 | 1st Curtain Shaft (B.P.) |
| X32-401132 | Retaining Washer |
| X32-501911 | Washer |
| X32-501912 | Washer |
| Y00-0316 | 2nd Curtain Shaft (Unit) |
| 13-2593 | 2nd Curtain Shaft |
| 13-3588 | Nut |
| 19-9342 | 2nd Curtain Spring (B.P.) |
| 97-0035 | Anchor Release Gear |
| X32-401132 | Retaining Washer |
| X32-501912 | Washer |
| 13-0123 | Screw |
| 13-0211 | Nut×2 |
| 13-0630 | Collar |
| 13-3301 | Clow×2 |
| 18-0092 | Shutter Drum(Unit) |
| 19-9042 | 2nd Curtain Brake Gear (B.P.) |
| 19-9043 | 2nd Curtain Brake Lever (B.P.) |
| 19-9044 | Shutter Release Safty Lever(B.P.) |
| 19-9047 | Shutter Release Claw (B.P.) |
| 13-0120 | Shutter Release Ring |
| 13-0121 | Shutter Release Claw |
| 97-2006 | Pin |
| 19-9136 | Idle Gear(B.P.) |
| 19-9185 | 1st Metal Curtain (B.P.) |
| 19-9186 | 2nd Metal Curtain (B.P.) |
| 19-9680 | Base Plate for Shutter Drum(B.P.) |
| 97-6015 | Spring |
| X32-503110<br>X32-503111<br>X32-503112<br>X32-503113 | Washer |
| X91-121196 | Screw |
| X93-170027 | Screw |
| X96-172037 | Screw |

REF. NO. 1-10611

# EXPLODED VIEW
of
# CANON 7S



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PARTS LIST

## SPROCKET (cf.p.9)

| | |
|---|---|
| 13-0362 | Sprocket |
| 13-0363 | Clutch |
| 13-2542 | Sprocket Shaft |
| 97-1019 | Bearing |
| X10-170228 | Screw×3 |
| X15-140408 | Screw×2 |
| X24-140188 | Screw×3 |

## WINDING SHAFT & TAKE-UP SPOOL

| | |
|---|---|
| 13-2562 | Take-Up Spool |
| 13-2563 | Friction Shaft |
| 13-2564 | Washer |
| 13-2565 | Joint |
| 13-2567 | Nut |
| 13-2568 | Spring Plate |
| 13-2569 | Bearing |
| 19-9293 | Take-Up Spool Shaft (B.P.) |
| 97-1022 | Bearing |
| 97-5015 | Coil Spring |
| X10-140157 | Screw |
| X24-140188 | Screw×3 |
| X32-401241 | Retaining Washer |
| [X32-503121 X32-503122] | Washer |
| X32-505213 | Washer×2 |
| [X98-040126 X98-040127] | Washer |

## SHUTTER MECHANISM

| | |
|---|---|
| 13-2266 | Collar |
| 13-2515 | Washer |
| 19-9067 | Brake Lever for 2nd Curtain(B.P.) |
| 97-6024 | Coil Spring |
| X21-170258 | Screw |
| [X32-503131 X32-503132] | Washer |

## BODY

| | |
|---|---|
| 13-2580 | Stopper |
| 13-2602 | Washer |
| 13-2685 | Base Plate |
| 19-9245 | Light Shield |
| 13-0091 | Light Shield |
| 19-9801 | Body(B.P.) |
| 13-0237 | Light Shield |
| 13-2362 | Light Shield |
| 13-2516 | Light Shield×4 |
| 13-2635 | Light Shield |
| X14-140308 | Screw |
| X91-143241 | Screw×3 |
| X96-142173 | Screw |

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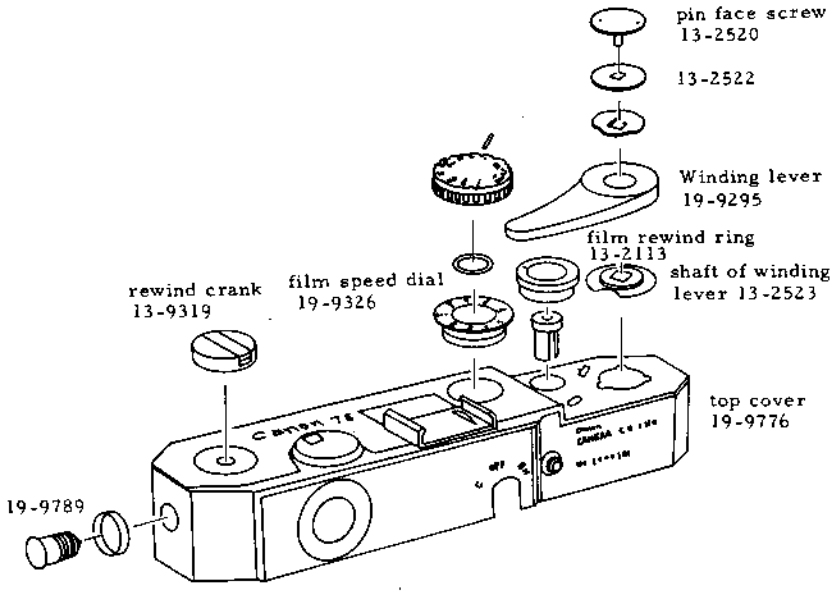
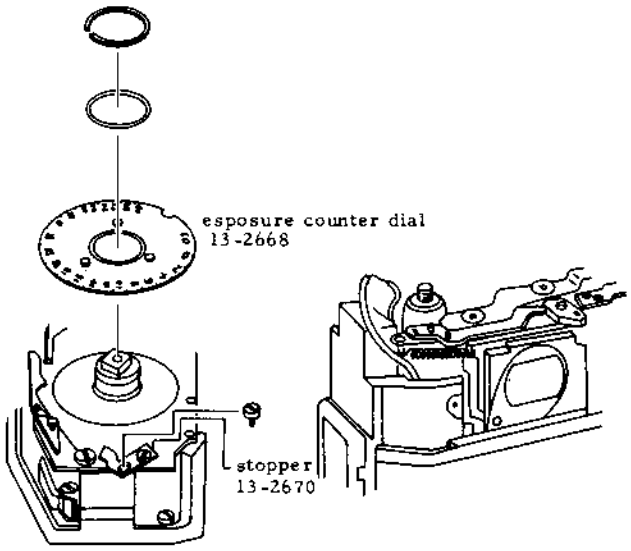
## TOP COVER DISASSEMBLING




| | Work | Procedures & n.b. |
|---|---|---|
| 1 | Taking out Winding Lever | Take out pin face screw 13-2520 Take out winding lever 12-9295<br>Shaft of winding lever 15-2523<br>n.b. Take out pressure plate and spring washer in the winding lever portion together with the lever. |
| 2 | Taking out Film Rewind Ring | Loosen screw x 3 X10-140206 Take out film rewind ring 13-2113 |
| 3 | Taking out Shutter Speed Dial | Loosen screw x 2 X10-17258 Take out screw x 1 13-2601<br>Take out shutter speed dial. 13-2466 Take out film speed dial. 19-9326<br>n.b. At loosening the screw X10-170258, set at ASA 400, and at fixing, set at 1/15 sec., ASA 400, and f 22 (red mark) S10. |
| 4 | Taking out Rewind Crank | Take out rewind crank 13-9319 |
| 5 | Taking out Flash Terminal | Take out flash terminal 19-9789 |
| 6 | Taking out Screw | Take out screw X25-170222 |
| 7 | Taking out Top Cover | Take out top cover 19-9776<br>n.b. Set switch of meter photo cell at L. |

## EXPOSURE METER DISASSEMBLING



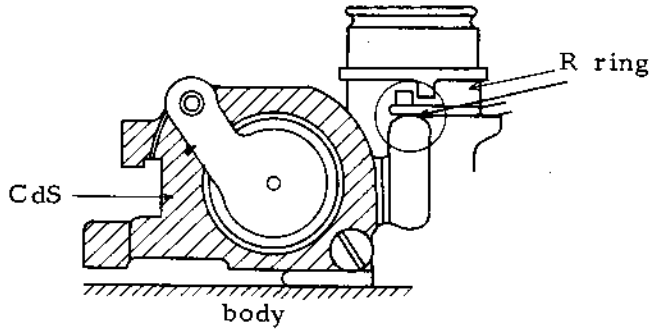

| | Works | Procedures & n.b. |
|---|---|---|
| 1 | Taking out Film Counter Dial | Take out screw x 1 — Take out retainer 13-2527<br>Take out washer X98-090005 — Take out film counter dial 13-2668<br>n.b. Take out one screw for stopper and let the stopper away. Shown in the diagram |
| 2 | Taking out Clutch lever | Take out screw X96-408116 — Take out clutch lever 19-9875 |
| 3 | Taking out Solding | Take out soldering shown in the diagram |
| 4 | Taking out CdS | (1) Take out a screw. Take out CdS. (2) Take out a screw.<br>n.b. Screw (1) is above the plate. Screw (2) is at front. |
| 5 | Taking out Wiring | Take out wiring which is in the groove of body. |
| 6 | Taking out Meter | Take out meter screw x 2. Take out meter.<br>n.b. Pay attention at taking out meter from the body as the needle should not touch to light shield plate and diaphragm graduation plate. |

## EXPOSURE METER ADJUSTMENT

1 How to fix

Refer to "How to Disassemble" of meter.

n.b. 1-1 At wiring insert it completely into the groove of body.




1-2 There must not be any space with R ring at CdS fixing. arrow portion

2 How to Adjust

Since there is no zero position in the meter so that it is qualified if it is within the limit at the appointed check point.

2-1 Adjustment of (H) for high sensitivity

| Check point (stripe) | brightness (cd/m$^2$) | Limit |
|---|---|---|
| S7 | 51 | ±05F |
| S9 | 205 | |

2-1-1 If the needle swings too much.
Paint a black at CdS.

2-1-2 If the needle swings too little.
Remove the needle to (+) direction.

2-2 Adjustment of (L) for low sensitivity.

| Check point (stripe) | brightness (cd/m$^2$) | Limit |
|---|---|---|
| S1 | 205 | 0.75F |
| S3 | 819 | |
| S6 | 6554 | |

2-2-1 If the needle swings too much.
Stick ND filter for FX to the pin hole.

2-2-2 If the needle swings too little.
Chip off the pin hole bigger.

n.b. The limit of balance for high sensitivity S7 and low sensitivity S1 must be within 0.75F.

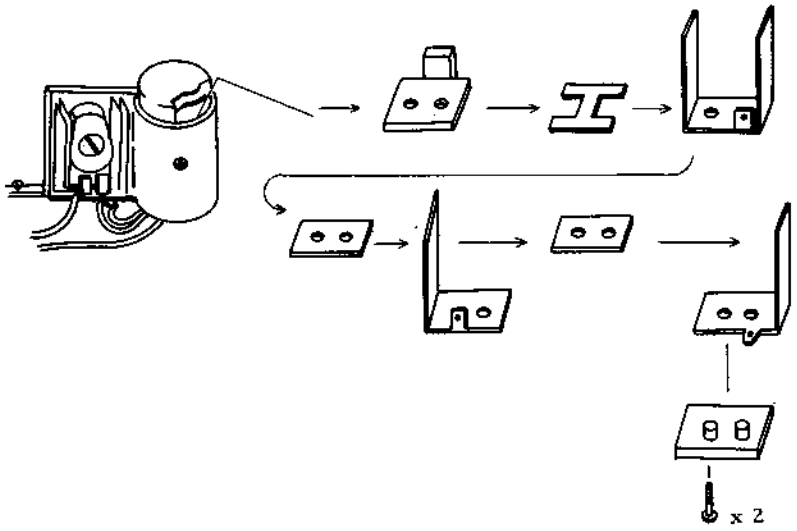
## TROUBLE, CAUSE & REMEDY

### EXPOSURE METER

**Meter does not operate.**

1 Caused by inferior meter wiring, short circut, and inferior switch contact.

1-1 Readjustment




2 Inferior meter itself

2-1 Replace the meter.

**Stuck Meter Needle**

1 The needle touches to stripe plate and light shield plate.

1-1 Rectify high and low of the needle.

2 Dust gets into inside meter.

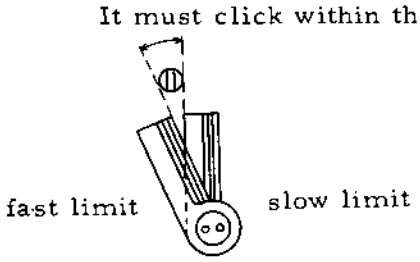
2-1 Clean up inside.

**Inferior Meter Precision**

Refer to the adjustment item.

## INSPECTION STANDARD

| | Inspection Items | Methods | Inspection point & standard |
|---|---|---|---|
| 1 | Range Finder | | |
| 1 | Field of View of Finder | Universal Parallax Collimator - 1 | Measure at 50mm within 90 ± 10%<br>Measure at 100mm within 90 ± 10%<br>both close up. |
| 2 | Rangefinder Precision | Universal Range Viewfinder Collimater | Right & left ± both ∞, close up within up & down + 1'30" |
| 2 | Shutter Portion | | |
| 1 | Shutter Precision | PA-16 Transistor Shutter Tester | 1/1000 - 1/500 +40% -20% 1/250 - 1/1 ±20% |
| 2 | FP Time Lag<br>X Time Lag | PA-16 Transistor Shutter Tester | upper A 8.0 - 11.5ms<br>upper A 0.4 up<br>middle B 1.5ms up |
| 3 | Curtain Speed | | 14.5ms - 15.5ms |
| 4 | Charging Condition of Second Curtain | Eye measurement | Pasted section of the second curtain should not appear operated at 1/1000. |
| 5 | Self Timer | By feeling | 8 sec. - 12 sec. Refer to the clicking position of diagram below. |




| | | | |
|---|---|---|---|
| 6 | Moves of Shutter Button | By feeling | The clicking position and its move must be normal and pressure must be 350 - 550g. |
| 7 | Shutter Dial | By feeling | Click must be effective in proper weight. |
| 8 | Others | PA-16 Transistor Shutter Tester | i Unevenness or unsteady clicking should not be qualified, the balance must be normal, and jump must be avoided. |

| | | | | |
|---|---|---|---|---|
| 8 | Others | PA-16 Transistor Shutter Tester | i | Unevenness or unsteady clicking should not be qualified, the balance must be normal, and jump must be aboided. |
| | | | ii | B, T must operate completely. |
| | | | iii | There should not be any skip or stop in the slow shutter. |
| 3 | Winding up and Rewinding | | | |
| 1 | Winding Condition | By feeling | | There should not be any stuck, rubbing, unevenness, double winding and inferior space. |
| 2 | Some Room for Winding | | | There should be some room for winding, and stroke. |
| 3 | Spool and Sprocket | | | Spool friction must be effective. In the state of pushing the button letting the sprocket lotate the pin must touch to. |
| 4 | R Button | | | At position R the sprocket must lotate without any catching. And at red position it must be that the shutter button cannot be pressed down. |
| 5 | Safety | | | Each safety mechanism must operate normally. |
| 6 | Operation of Film Counter | Eye measurement | | Forward and return must be stable. Aberration of the indicator must be within the numeral width. |
| 7 | Lever Return | By feeling | | It should return steadily without any stuck or caught. It must stop within the free angle and should not touch to the cover. |
| 8 | Rewinding Crank | By feeling | | Going in and out, and also rotate smoothly. |
| 4 | Meter Portion | | | |
| 1 | Meter Precision | Inspection Device for Canon Meter | | (H) $S_7$ 51cd/m$^2$ $S_9$ 205dc/m2 ± f 0.5<br>(L) $S_1$ 205c d/m$^2$ S3 819cd/m$^2$<br>$S_6$ 6554cd/m$^2$ ± f 0.75<br>Balance limit of $S_7$ in H and $S_1$ in L must be within f 0.75. |
| 2 | Regulating Position | Eye measurement | | White 2 of the diaphragm plate must |

| | | | |
|---|---|---|---|
| 2 | **Regulating Position** | **Eye measurement** | **White 2 of the diaphragm plate must come to the same line of $S_1$ and red 2 to $S_9$ at ASA 100 and 1/250. Red 2 of the diaphragm plate must come to the same line of $S_1$ at ASA 100 and 1/1.** |
| 3 | Moves of Meter Needle | | Let it swing up to $S_{10}$ and it should not catch on the way. |
| 4 | Switch of On and Off | Eye measurement | It must clearly switch over and the click must be effective in proper weight, and the rotation must be smooth and no backlash. |
| 5 | Switch of ASA Sensitivity | By feeling | At the time dowell is pressed, it must switch over smoothly and at letting go your hold, it should not stop. |
| 5 | Contact and Insulation | DC 500V mega | Measure at contact B and 1/1000 and less than 3 Ω and insulation must be more than 30M Ω at the same points. |
| 6 | Focal Plane | Dial gauge | At four corners 28.94 ± 0.02 |
| 7 | Others | | |
| 1 | Outlook | By feeling | There should not be any remarkable scratch or soil in the cover, base lid, and body. |
| 2 | Open and Close of Back Lid | By feeling | Open, close and hook must be steady and should not be too weak snap. |

regulated position

# CANON SERVICE TOOLS LIST

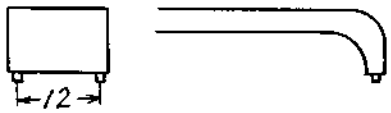
## CANON 7S
## (REFERENCE NO. 1-10611)

### TESTING EQUIPMENTS

| Use | Names of Testing Equipment |
|---|---|
| Exposure Meter | 1. Inspection device for Canon meter<br>2. Resistance meter (0-1 mega ohm) |
| Shutter | 1. PA-16 transistor shutter tester or Simplified shutter test unit |
| Focal plane | 1. 28.8 dial gauge |
| Adjusting | 1. C10601 substitutive winding lever<br>2. C10601 substitutive bearing<br>3. C10601 substitutive cam<br>4. C10601 winding gadget-1 |

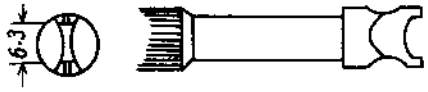
### SPECIAL SCREWDRIVERS

T06A-C2280-2
(13-2520)
(Common to VL, VI, P, Demi, Demi S, Canonet Jr, 7)




Tightening Pin Face Screw

T06A-C151-367-1
(Common to 7)

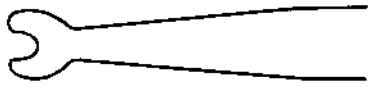



Tightening rewinding indicator

T06A-13-2715-1

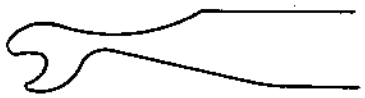
Tightening Flash Terminal

T06A-C0747A
(Common to VI, P, 7)



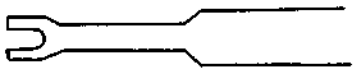
Tightening focusing roller

T06A-C9747B
(Common to VI, P, 7)



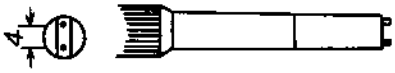
Tightening focusing roller

T0199-13-2051-2
(Common to 7)



Adjusting high speed shutter

T06A-C2375-1
(Common to 7)

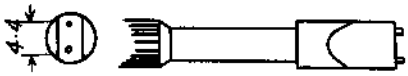



Tightening Pin Face Screw C2375

T0103-13-0184-1
(Common to 7)

Tightening fastening nut for brake lever of 1st curtain

T06A-C0998-1
(Common to V, VI, P, FX, FP, 7)




Tightening Pin Face Screw

**Canon SERVICE MANUAL REPORT** Serial No. AC14-017E

Service Manual C-014

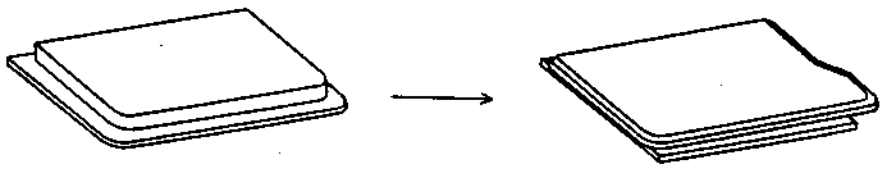
Issued by Service Department, Canon Camera Co., Inc. Date 11th March, 1968

# Altered Top Cover, Canon 7S

## 1 Alterations

The window of the Top Cover and the illuminating window sometimes come off in accordance with environment in variation of the temperature. In order to prevent this trouble, the shape of the holder for the window and the illuminating window is altered as it does not come off easily. The number of the Top Cover 19-9776 is altered to 19-9776-05.

Window



## 2 Repairings

The stock of the Top Cover will be gradually made to the altered one. In need of the altered Top Cover, specify the number.